

CLAIMS

1. A foamer dispenser comprising: a base cap fixedly held at a container mouth; two pumps attached to the base cap and configured to separately suck, pressurize, and pressure-feed ambient air and the liquid contents filled in the container; a depression head for defining a merging space for merging outlet passages of the pumps with each other, the depression head having an ejecting end communicated with the outside, and the depression head having an internal passage for communicating the merging space with the ejecting end, so as to eject contents mixed with the ambient air from the ejecting end by repeating depressing and returning operations of the depression head; and a foaming element disposed within the internal passage of the depression head and configured to foam the contents mixed with the ambient air;

wherein said foaming element comprises: a jet ring having an inlet opening with an opening area narrower than that of said internal passage of said depression head, the jet ring comprising a tubular body with an opening area larger than that of the inlet opening and communicated with said internal passage of said depression head; and a mesh disposed within said tubular body of said jet ring so as to face to said inlet opening of said jet ring, said mesh having a number of fine holes to be contacted with the contents mixed with the ambient air and supplied from said inlet opening to allow a part of the contents to pass through said mesh; and

wherein said mesh has an opening diameter $\phi 2$ which is 2.0 to 3.5 times as large as an opening diameter $\phi 1$ at the inlet opening of said jet ring.

2. The foamer dispenser according to Claim 1, wherein said mesh has the opening diameter $\phi 2$ which is 2.2 to 3.2 times as large as the opening diameter $\phi 1$ at said inlet opening of said jet ring.

3. The foamer dispenser according to Claim 1, wherein said jet ring has a tapered surface or curved surface connecting between said inlet opening and said mesh.

4. The foamer dispenser according to Claim 1, wherein said pumps consist of a dual pump comprising: a cylinder suspended from a lower surface of said base cap, and configured to cooperate with an inner periphery of the mouth of the container to define an annular gap therebetween which is communicated with an interior of the mouth and sealed by said base cap; and two pistons arranged in series

with each other within said cylinder so as to be slidable therein; and

wherein said pistons are configured to separately suck, pressurize, and pressure-feed the contents within the container and the ambient air.

- 5 5. The foamer dispenser according to Claim 4, wherein said dual pump is
formed with an ambient air introduction port at a cylinder portion constituting the
pump for sucking, pressurizing, and pressure-feeding the ambient air, the ambient air
introduction port being blocked by said piston for sucking, pressurizing, and
pressure-feeding the ambient air when said piston is in a stationary state where said
piston is kept unslid, and the ambient air introduction port being released from said
10 piston when said piston is depressed, to thereby introduce ambient air into the
container.